

EPSON® Ethernet Card Supplement

This guide includes new information about your EPSON® multiprotocol Ethernet interface card and software.

If you are using the card with Apple® Macintosh® computers on AppleTalk® or TCP/IP networks, please disregard the Macintosh section in your EPSON *Type B Ethernet Interface Card User's Guide* and follow the steps in this supplement.

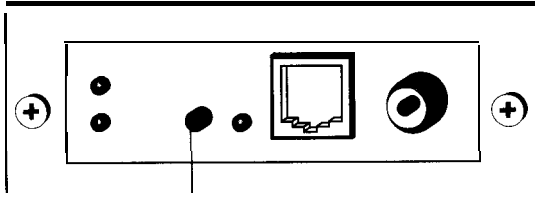
In addition to the operating systems mentioned in the Ethernet card *User's Guide*, the card also supports Windows 95 and Windows NT 4.x.

You'll find the following information in this Supplement:

- Initializing the Ethernet card
- Using the Ethernet Card with NetWare® on a WAN
- Using Macintosh with the Ethernet Card
- Using TCP/IP with Windows 95

Initializing the Ethernet Card

After you install the Ethernet card in a printer or reinstall it in a new printer, plug in the printer while pressing down the status sheet button for at least three seconds to initialize the card.



status sheet button

Printing a Status Sheet

You can print a status sheet after you finish initializing the card. Turn on the printer and press the status sheet button. The status sheet gives you information about the Ethernet card including the current configuration, serial number, and address of the card. Keep the status sheet; you need the information to configure the card.

Using the Ethernet Card With NetWare on a WAN

If you use the Ethernet card in a NetWare environment over a WAN (Wide Area Network) and connect it to a general phone line (including ISDN), the card may open the dial-up-router and packets may be sent to the WAN. To avoid this problem and possible phone fees, mask the vendor code in the dial-up-router as shown below:

Vendor code

00:00:48:xx:xx:xx

For details on how to mask the vendor code, ask your network administrator or see your NetWare documentation.

Using Macintosh with the Ethernet Card

Before configuring the Ethernet card, check to see if the correct printer driver is installed in the Macintosh. Make sure the printer is turned on and the Ethernet card is connected to the network. (See your Ethernet card *User s Guide* and your printer *User s Guide* for more information.)

The information on Macintosh is explained in the following sections:

- ❑ Installing EPSON Net!
- ❑ Monitoring the Printers on Your Network
- ❑ Configuring the Ethernet Card for AppleTalk
- ❑ Configuring the Ethernet Card for TCP/IP Using EPSON Net! for Macintosh

Note:

If you are using Macintosh computers on a NetWare network, configure the card using EPSON Net! for NetWare Windows from a Windows workstation or EPSON Net! for NetWare DOS from a DOS workstation. See your Ethernet card User s Guide for instructions.

Installing EPSON Net!

To install EPSON Net! for Macintosh, follow these steps:

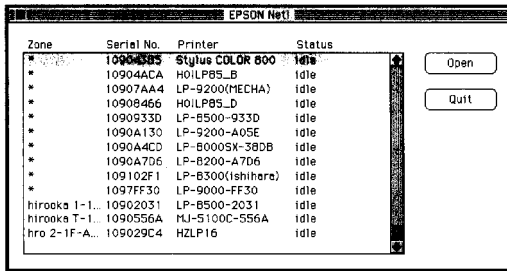
1. Turn on your Macintosh.
2. Create a folder for EPSON Net! on your hard drive.
3. Insert the EPSON Net! for Macintosh disk in the drive.
4. Copy the program from the disk to the folder.

Monitoring the Printers on Your Network

You can monitor and check the status of all printers connected to your network according to the protocol you use.

To check the status of all printers that are turned on and enabled for a protocol, follow the steps below:

1. Open the EPSON Net! folder and click the EPSON Net! icon. The following window appears:



Note:

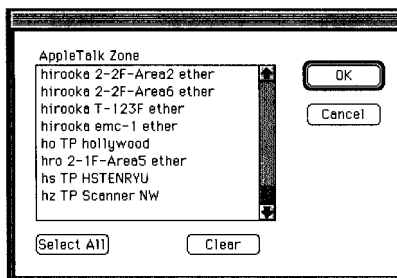
If you don't see any printers in the list, try selecting the zone that the printer is in or all zones by following the steps in the next section.

2. To exit EPSON Net!, click Quit.

Selecting a Zone

You can select which printers to monitor according to their zone or address. You must select a zone before you configure the Ethernet card in the Configuration dialog box. Follow these steps:

1. With the EPSON Net! dialog box open, choose Zone from the Options menu bar.



2. Click a zone to select it, press and hold the Shift key while clicking multiple zones to select them, or click **Select All**.

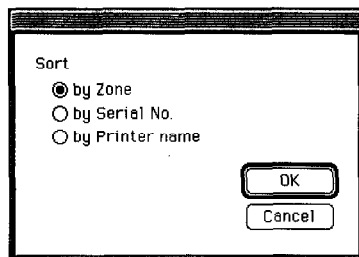
3. Click **OK**.

EPSON Net! sends a packet to the selected zones and detects the current printer's status. The EPSON Net! dialog box shows the latest information about the printers located in that zone.

Sorting the Printers

Follow these steps to sort the printers in the EPSON Net! dialog box:

1. With the EPSON Net! dialog box open, choose **Sort** from the Options menu bar.



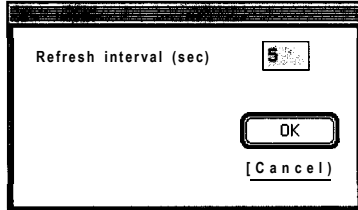
2. Click any of the sort options and click **OK**.

The EPSON Net! dialog box displays the printers according to the selected sort option.

Setting the Refresh Interval

Follow these steps to set the refresh interval for the settings in the EPSON Net! dialog box:

1. With the EPSON Net! dialog box open, choose Preferences from the Options menu bar.



2. Type any value from 5 (default) to 90 seconds and click OK.

EPSON Net! monitors the printers by polling the network at the intervals you specified.

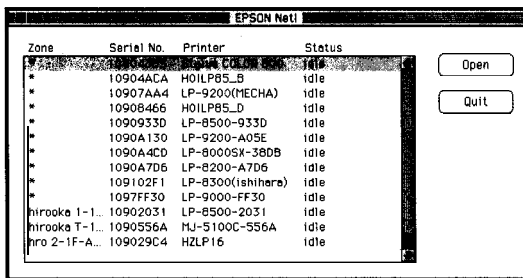
Configuring the Ethernet Card for AppleTalk

Follow these steps to use EPSON Net! for Macintosh to configure the Ethernet card for AppleTalk:

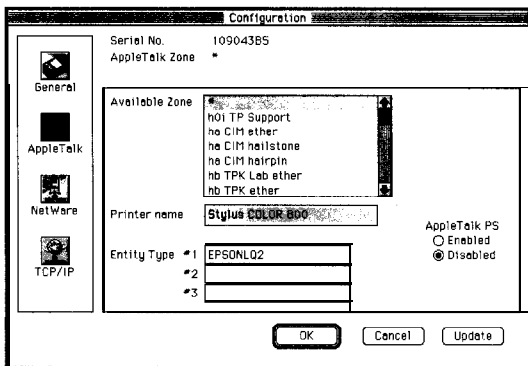
Note:

You must select a zone before you can configure the Ethernet card. See page 4 for instructions.

1. Open the EPSON Net! folder and double-click the EPSON Net! icon. The following window appears:



2. Highlight the printer you want to configure in the list.
3. Click Open. You see the Configuration dialog box:



4. Click the AppleTalk icon. Make sure the correct serial number of your Ethernet card is displayed.
5. Set the following options in the AppleTalk Configuration box:
 - Available Zone: Select the network zone that you want the printer to appear in.
 - Printer Name: The default printer name appears. You can rename it. If the same types of printers are connected to the network, be sure to give them unique names.
 - Entity Type: EPSON Net! displays the printer s Entity type on an AppleTalk network. You don t have to set these options.
 - Network No.: You may not see this option. If you do, you should keep Auto selected. If you want to change it, click Manual and enter a number.
 - AppleTalk IS: You may not see this option. It is only available when an EPSON PostScript® printer that is connected to the network cannot make AppleTalk active or inactive automatically.

- Click **OK** to send the new settings to the Ethernet card and return to the EPSON Net! dialog box. Click **Update** to send the new settings to the card without closing the Configuration dialog box.



Caution:

Once you make changes to the Ethernet card, wait at least five minutes before turning off or restarting your printer.

- Click **Exit** to exit EPSON Net! for Macintosh.

Configuring the Ethernet Card for TCP/IP Using EPSON Net! for Macintosh

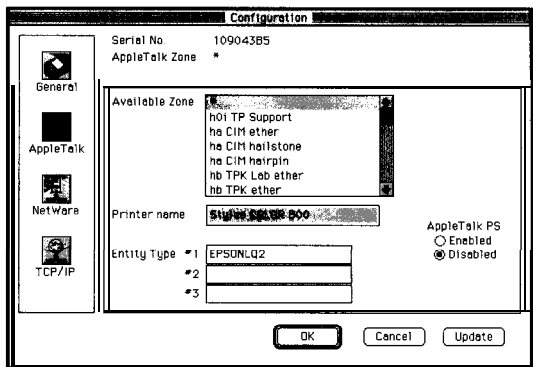
To configure the Ethernet Card for TCP/IP using EPSON Net! for Macintosh, follow these steps:

- Open the EPSON Net! folder and double-click the EPSON Net! icon.

Note:

If you do not know how to find out your computer's IP address or the IP address for the Ethernet card, ask your network administrator, or follow the instructions on page 11.

- Highlight the printer you want to configure in the list.
- Click **Open** to open the Configuration dialog box.



4. Click the TCP/IP icon. Make sure the Configuration dialog box shows the correct serial number of the target Ethernet card.
5. Set the following options in the TCP/IP Configuration dialog box:
 - IP address: Determine and assign an IP address for the Ethernet card.
 - Subnet mask: Assign the subnet mask.
 - Auto IP set: Click Off.
6. Click **Update** to send the new settings to the Ethernet card without closing the Configuration dialog box. Or, click **OK** to send the new settings and return to the EPSON Net! dialog box.
7. Click **Exit** to exit EPSON Net! for Macintosh.

After configuring the Ethernet card for TCP/IP, set up your printer on each Macintosh and make sure that the TCP/IP network works correctly.

Using TCP/IP in Windows 95

You can configure the Ethernet card for TCP / IP if you are using Windows 95 on a TCP / IP network, or a Windows 95 peer-to-peer network.

Installing TCP/IP in Windows 95

1. Click **Start**, point to **Settings**, and click **Control Panel**.
2. Double-click the **Network** icon.
3. If TCP/IP appears in the list of installed network components on the Configuration menu, you can skip to **Configuring the Ethernet Card for TCP/IP and Windows 95.** If TCP/IP does not appear in the list, click **Add**.

4. Click Protocol and then the Add button.
5. Select Microsoft from the Manufacturers list and TCP/IP from the Network Protocols list. Then click OK.
6. Click OK again and follow any on-screen instructions to enable TCP/IP.

Configuring the Ethernet Card for TCP/IP and Windows 95

Make sure that the Ethernet card installed in the printer is on the same network segment as the computer you are using to configure the card. Also, find out that computer's IP address and the IP address that you will assign to the Ethernet card.

Note:

If you do not know how to find out your computer's IP address or the IP address for the Ethernet card, ask your network administrator, or follow the instructions that follow this section.

Follow these steps to configure the card:

1. Find the hardware address (node number) on the top of the status sheet you printed out after initializing the card. (See page 2.) If you need to, print out another status sheet.
2. Double-click the MS-DOS Prompt icon to open a DOS prompt.
3. Set up the routing table, using the following command:

```
ping <IP address>  
for example: ping 127.0.1.1
```

4. Add an entry in the ARP table that assigns an IP address to the hardware address of the Ethernet card. Use the following command:

```
arp -s <IP address> <node address>  
for example: arp -s 127.0.1.200 00:00:48:92:BD:9A
```

5. Start a continuous ping to the card, using the following command with the card IP address:

```
ping <IP address>  
for example: ping 127.0.1.200
```

You see a message similar to the following:

```
Reply from 127.0.1.200: bytes=32 time<10ms TTL=30  
Reply from 127.0.1.200: bytes=32 time<10ms TTL=30  
Reply from 127.0.1.200: bytes=32 time<10ms TTL=30  
Reply from 127.0.1.200: bytes=32 time<10ms TTL=30
```

This shows that the Ethernet card is set up for TCP/IP correctly.

If you receive 4 lines of Request Timed Out, The card is not set up correctly. Check to make sure the card is on the same network segment as the workstation you are using to configure it and that you typed in the correct IP and hardware addresses.

Before you can print using TCP/IP, you need to install the Status Monitor and add a printer port. See your EPSON Status Monitor 2 *User s Guide* for instructions.

Note About IP Addresses and Subnet Masks

If you don t have a network administrator, you can assign IP addresses in the range of 192.168.1.1 to 192.168.1.254. Each computer or other device connected directly to the network must have a unique IP number. The subnet mask should be 255.255.255.0. However, you should not use these addresses if your network has a direct (rather than dial-up) connection to the Internet.

EPSON is a registered trademark of SEIKO EPSON CORPORATION.

General Notice: Other product names used herein are for identification purposes only and may be trademarks of their respective owners. EPSON disclaims any and all rights in those marks.

Copyright © 1997 by Epson America, Inc.

10/97



Printed on recycled paper with at least 10% post-consumer content.